

Notice of Allowability

Application No.

09/055,984

Examiner

Toan D. Nguyen

Applicant(s)

KIM, TAE WOON

Art Unit

2665

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 5/9/05.
2. ☒ The allowed claim(s) is/are 1-11, 13-25, 27-31, 35-36, 38-46 are renumbered 1-40, respectively.
3. ☐ The drawings filed on _____ are accepted by the Examiner.
4. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some* c) ☐ None of the:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
6. ☒ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
- (a) ☒ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
- 1) ☐ hereto or 2) ☒ to Paper No./Mail Date 3.
- (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

- | | |
|---|---|
| 1. <input type="checkbox"/> Notice of References Cited (PTO-892) | 5. <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 6. <input checked="" type="checkbox"/> Interview Summary (PTO-413),
Paper No./Mail Date <u>5/19/05</u> . |
| 3. <input type="checkbox"/> Information Disclosure Statements (PTO-1449 or PTO/SB/08),
Paper No./Mail Date _____ | 7. <input checked="" type="checkbox"/> Examiner's Amendment/Comment |
| 4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit
of Biological Material | 8. <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance |
| | 9. <input type="checkbox"/> Other _____ |

DETAILED ACTION

Examiner Amendment

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it **MUST** be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Mr. David C. Oren on May 19, 2005.

2. The application has been amended as follows:

IN THE CLAIMS:

Claims 47-49 have been cancelled.

The above examiner's amendment was made to clarify the claims.

Allowable Subject Matter

3. The following is an examiner's statement of reasons for allowance:

Regarding claim 1, the prior art fails to teach a combination of the steps of:
a mobile switching center for detecting a service option included in the signal transmitted from the base stations and base station controllers and for switching between a circuit data service and a packet data service based on the detected service option, in the specific combination as recited in the claim.

Regarding claim 10, the prior art fails to teach a combination of the steps of:
connecting said first and second traffic channels through at least one modem of the interworking unit to perform circuit data service, wherein the identification number of

said called party mobile station is inputted by an ATD command and the data response is automatically generated by a present automatic response or ATA command, in the specific combination as recited in the claim.

Regarding claims 18 and 24, the prior art fails to teach a combination of the steps of:

- initializing a second modem equipped in the data network interworking unit;
- connecting a path between said called party mobile station and the data network interworking unit to modem;
- establishing a communication protocol between said called party mobile station and the data network interworking unit;
- transmitting said incoming response receive message and said modem initialization specification from said called party mobile station to the second modem;
- and
- reestablishing a modem initialization specification required by said calling party mobile station, in the specific combination as recited in the claims.

Regarding claim 20, the prior art fails to teach a combination of the steps of:

- informing the public network data path connection control module by the mobile data path connection control module that said first data path is normally established;
- establishing a call between the public network data path connection control module and the data path network interworking unit through said second data path;
- connecting a path of the first call with a path of the second call in the public network data path connection control module;

making the traffic channel between the mobile connection control module and the public network data path connection control module inactive;

receiving both a connection request message transmitted from said calling party mobile station through the mobile switching center and an incoming response message transmitted from said called party mobile station into the data network interworking unit;

connecting at least one modem equipped in the data network interworking unit which is assigned to link said connection request message and said incoming response message to each other; and

confirming the connection of the at least one modem, in the specific combination as recited in the claim.

Regarding claim 21, the prior art fails to teach a combination of the steps of:

g) connecting said public network data path connection control module with the trunk connection control module, wherein the identification number of said called party mobile station is inputted by an ATD command and the data response is automatically generated by a preset automatic response mode or an ATA command, in the specific combination as recited in the claim.

Regarding claim 27, the prior art fails to teach a combination of the steps of:

a mobile switching center (MSC) configured to detect a service option included in the signal transmitted from the at least one base station and base station controller and to switch between a circuit data service and a packet data service based on the detected service option, in the specific combination as recited in the claim.

Regarding claim 35, the prior art fails to teach a combination of the steps of:

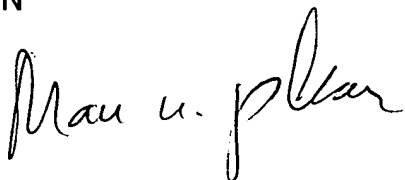
inputting an identification number of a first mobile station, wherein the identification number of the first mobile station is inputted by an ATD command and the data response is automatically generated by a preset automatic response mode or an ATA command, in the specific combination as recited in the claim.

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Toan D Nguyen whose telephone number is 571-272-3153. The examiner can normally be reached on M-F (7:00AM-4:30PM).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mr. Huy Vu can be reached on 571-272-3155. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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MAN U. PHAN
PRIMARY EXAMINER